



Caerus Oil & Gas

Rio Blanco County, CO (UTM 12N)

SEC 14-T4S-R96W ELU J14 496

ELU J14 FED 12A-14 496

OH

Plan: Plan 1

Standard Planning Report

05 December, 2019



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	
3	350.00	3.00	345.00	349.95	2.53	-0.68	3.00	345.00	2.59	
4	550.00	3.00	345.00	549.68	12.64	-3.39	0.00	0.00	12.94	
5	1058.01	18.21	337.57	1047.56	99.37	-37.31	3.00	-8.84	105.99	
6	8117.16	18.21	337.57	7753.15	2138.54	-878.96	0.00	0.00	2311.51	
7	8724.17	0.00	0.00	8350.00	2226.96	-915.45	3.00	180.00	2407.14	
8	8765.78	0.83	240.01	8391.61	2226.81	-915.71	2.00	240.01	2407.10	
9	12593.58	0.83	240.01	12219.00	2199.02	-963.87	0.00	0.00	2400.99	BHL - ELU J14 12-14 496

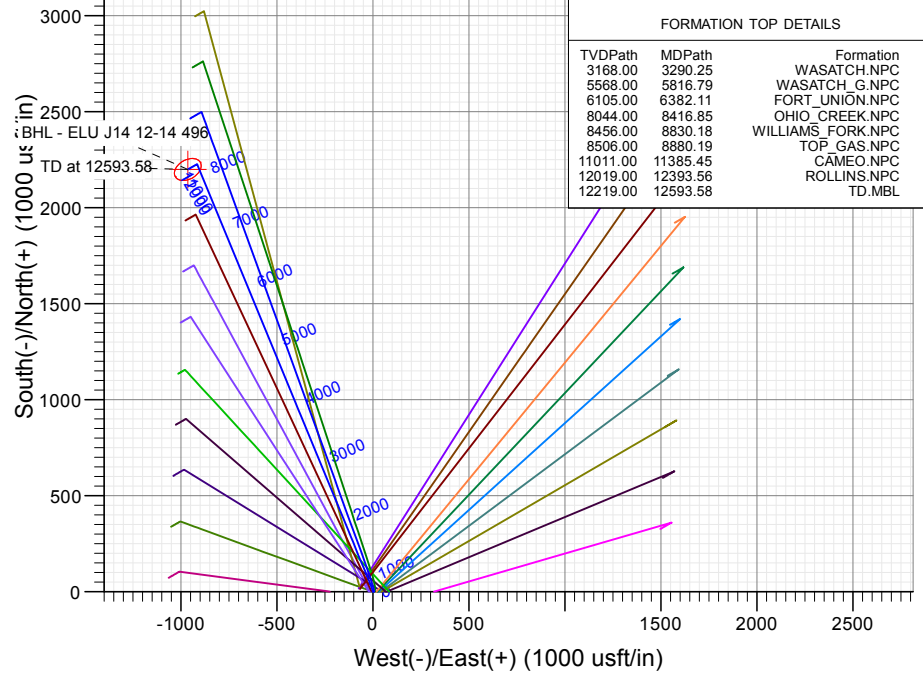
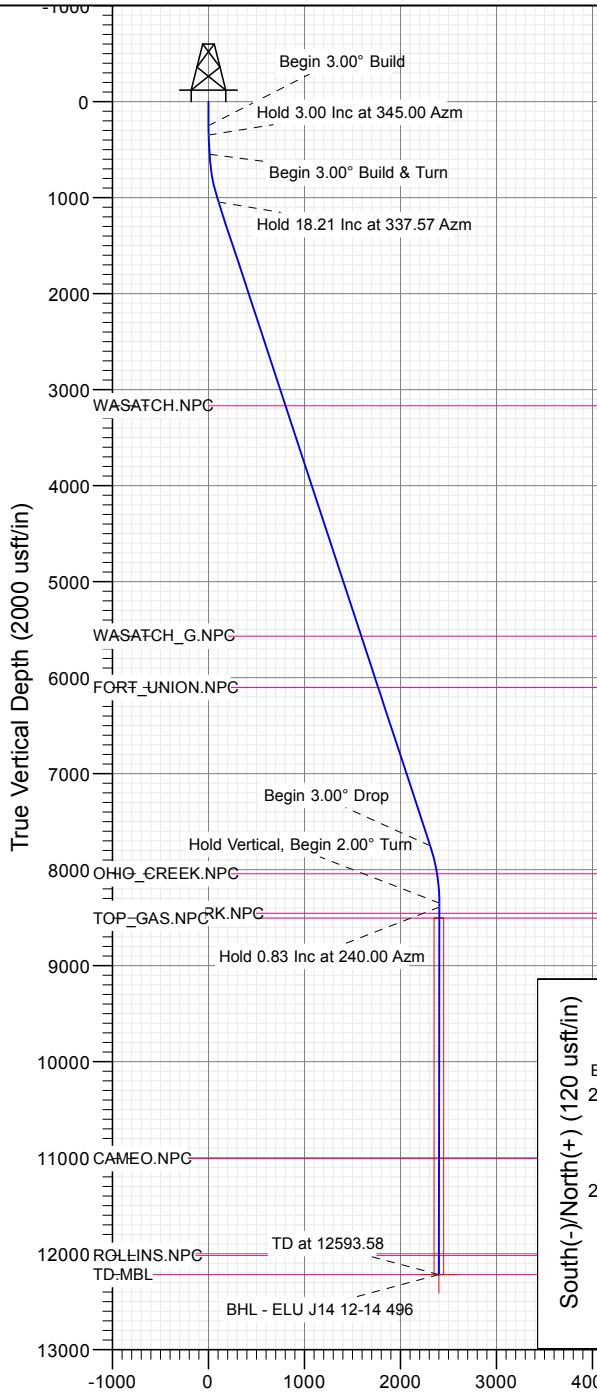
Project: Rio Blanco County, CO (UTM 12N)
Site: SEC 14-T4S-R96W ELU J14 496
Well: ELU J14 FED 12A-14 496
Wellbore: OH
Design: Plan 1

Plan 1
ELU J14 FED 12A-14 496
RKB @ 7932.00usft
Ground Level @ 7902.00
NAD 1927 - Western US
Well ELU J14 FED 12A-14 496, True North

Name	Type	Target	Azimuth	Origin	Type	N/S	E/W	From	TVD
BHL - ELU J14 12-14 496	TD	No Target (Freehand)	336.33	Slot		0.00	0.00	0.00	
			TVD			+N/-S	+E/-W	Latitude	Longitude
			12219.00			2199.02	-963.87	39.706934	-108.139653

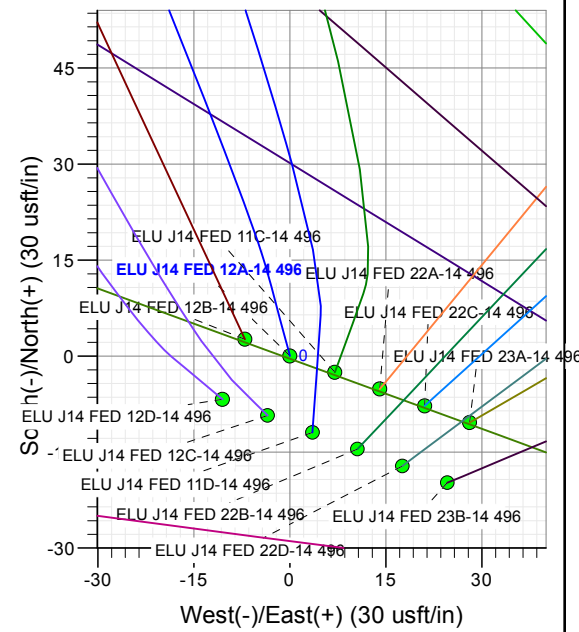
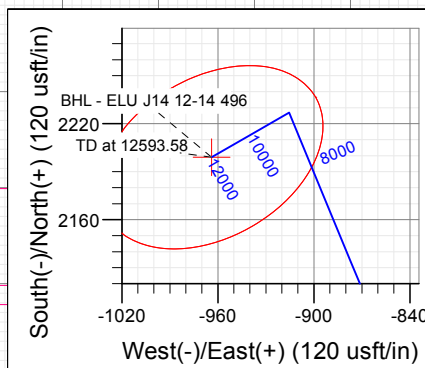
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3168.00	3290.25	WASATCH.NPC
5568.00	5816.79	WASATCH_G.NPC
6105.00	6382.11	FORT_UNION.NPC
8044.00	8416.85	OHIO_CREEK.NPC
8456.00	8830.18	WILLIAMS_FORK.NPC
8506.00	8880.19	TOP_GAS.NPC
11011.00	11385.45	CAMEO.NPC
12019.00	12393.56	ROLLINS.NPC
12219.00	12593.58	TD.MBL



Azimuths to True North
Magnetic North: 9.48°

Magnetic Field
Strength: 51241.3nT
Dip Angle: 65.82°
Date: 10/30/2019
Model: HDGM_FILE



Vertical Section at 336.33° (2000 usft/in)

WELL DETAILS: ELU J14 FED 12A-14 496

+N/-S	+E/-W	North	East	Latitude	Longitude
0.00	0.00	14430000.39	2445990.21	39.700899	-108.136228

CATHEDRAL



Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12A-14 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.00usft
Project:	Rio Blanco County, CO (UTM 12N)	MD Reference:	RKB @ 7932.00usft
Site:	SEC 14-T4S-R96W ELU J14 496	North Reference:	True
Well:	ELU J14 FED 12A-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Project	Rio Blanco County, CO (UTM 12N)		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	SEC 14-T4S-R96W ELU J14 496		
Site Position:		Northing:	14,430,024.30 usft
From:	Map	Easting:	2,445,919.10 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	39.700971
		Longitude:	-108.136478
		Grid Convergence:	1.83 °

Well	ELU J14 FED 12A-14 496		
Well Position	+N/-S	-26.17 usft	Northing: 14,430,000.39 usft
	+E/-W	70.31 usft	Easting: 2,445,990.22 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 39.700899
			Longitude: -108.136229
			Ground Level: 7,902.00 usft

Wellbore	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	10/30/2019	9.48	65.82	51,241.30000000

Design	Plan 1		
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Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	336.33

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
350.00	3.00	345.00	349.95	2.53	-0.68	3.00	3.00	0.00	345.00	
550.00	3.00	345.00	549.68	12.64	-3.39	0.00	0.00	0.00	0.00	
1,058.01	18.21	337.57	1,047.56	99.37	-37.31	3.00	2.99	-1.46	-8.84	
8,117.16	18.21	337.57	7,753.15	2,138.54	-878.96	0.00	0.00	0.00	0.00	
8,724.17	0.00	0.00	8,350.00	2,226.96	-915.45	3.00	-3.00	0.00	180.00	
8,765.78	0.83	240.01	8,391.61	2,226.81	-915.71	2.00	2.00	-288.36	240.01	
12,593.58	0.83	240.01	12,219.00	2,199.02	-963.87	0.00	0.00	0.00	0.00	BHL - ELU J14 12-



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12A-14 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.00usft
Project:	Rio Blanco County, CO (UTM 12N)	MD Reference:	RKB @ 7932.00usft
Site:	SEC 14-T4S-R96W ELU J14 496	North Reference:	True
Well:	ELU J14 FED 12A-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin 3.00° Build									
300.00	1.50	345.00	299.99	0.63	-0.17	0.65	3.00	3.00	0.00
350.00	3.00	345.00	349.95	2.53	-0.68	2.59	3.00	3.00	0.00
Hold 3.00 Inc at 345.00 Azm									
400.00	3.00	345.00	399.89	5.06	-1.35	5.17	0.00	0.00	0.00
500.00	3.00	345.00	499.75	10.11	-2.71	10.35	0.00	0.00	0.00
550.00	3.00	345.00	549.68	12.64	-3.39	12.94	0.00	0.00	0.00
Begin 3.00° Build & Turn									
600.00	4.49	342.05	599.57	15.76	-4.33	16.18	3.00	2.98	-5.89
700.00	7.48	339.68	699.02	25.59	-7.79	26.57	3.00	2.99	-2.37
800.00	10.47	338.66	797.78	40.16	-13.36	42.15	3.00	3.00	-1.02
900.00	13.47	338.10	895.59	59.44	-21.02	62.88	3.00	3.00	-0.57
1,000.00	16.47	337.73	992.19	83.38	-30.74	88.70	3.00	3.00	-0.37
1,058.01	18.21	337.57	1,047.56	99.37	-37.31	105.99	3.00	3.00	-0.27
Hold 18.21 Inc at 337.57 Azm									
1,100.00	18.21	337.57	1,087.45	111.50	-42.32	119.10	0.00	0.00	0.00
1,200.00	18.21	337.57	1,182.44	140.38	-54.24	150.35	0.00	0.00	0.00
1,300.00	18.21	337.57	1,277.43	169.27	-66.16	181.59	0.00	0.00	0.00
1,400.00	18.21	337.57	1,372.42	198.16	-78.09	212.84	0.00	0.00	0.00
1,500.00	18.21	337.57	1,467.41	227.04	-90.01	244.08	0.00	0.00	0.00
1,600.00	18.21	337.57	1,562.40	255.93	-101.93	275.32	0.00	0.00	0.00
1,700.00	18.21	337.57	1,657.40	284.82	-113.85	306.57	0.00	0.00	0.00
1,800.00	18.21	337.57	1,752.39	313.70	-125.78	337.81	0.00	0.00	0.00
1,900.00	18.21	337.57	1,847.38	342.59	-137.70	369.05	0.00	0.00	0.00
2,000.00	18.21	337.57	1,942.37	371.48	-149.62	400.30	0.00	0.00	0.00
2,100.00	18.21	337.57	2,037.36	400.36	-161.55	431.54	0.00	0.00	0.00
2,200.00	18.21	337.57	2,132.35	429.25	-173.47	462.78	0.00	0.00	0.00
2,300.00	18.21	337.57	2,227.34	458.14	-185.39	494.03	0.00	0.00	0.00
2,400.00	18.21	337.57	2,322.34	487.03	-197.31	525.27	0.00	0.00	0.00
2,500.00	18.21	337.57	2,417.33	515.91	-209.24	556.51	0.00	0.00	0.00
2,600.00	18.21	337.57	2,512.32	544.80	-221.16	587.76	0.00	0.00	0.00
2,700.00	18.21	337.57	2,607.31	573.69	-233.08	619.00	0.00	0.00	0.00
2,800.00	18.21	337.57	2,702.30	602.57	-245.00	650.24	0.00	0.00	0.00
2,900.00	18.21	337.57	2,797.29	631.46	-256.93	681.49	0.00	0.00	0.00
3,000.00	18.21	337.57	2,892.29	660.35	-268.85	712.73	0.00	0.00	0.00
3,100.00	18.21	337.57	2,987.28	689.23	-280.77	743.97	0.00	0.00	0.00
3,200.00	18.21	337.57	3,082.27	718.12	-292.70	775.22	0.00	0.00	0.00
3,290.25	18.21	337.57	3,168.00	744.19	-303.46	803.41	0.00	0.00	0.00
WASATCH.NPC									
3,300.00	18.21	337.57	3,177.26	747.01	-304.62	806.46	0.00	0.00	0.00
3,400.00	18.21	337.57	3,272.25	775.90	-316.54	837.70	0.00	0.00	0.00
3,500.00	18.21	337.57	3,367.24	804.78	-328.46	868.95	0.00	0.00	0.00
3,600.00	18.21	337.57	3,462.23	833.67	-340.39	900.19	0.00	0.00	0.00
3,700.00	18.21	337.57	3,557.23	862.56	-352.31	931.43	0.00	0.00	0.00
3,800.00	18.21	337.57	3,652.22	891.44	-364.23	962.68	0.00	0.00	0.00
3,900.00	18.21	337.57	3,747.21	920.33	-376.15	993.92	0.00	0.00	0.00
4,000.00	18.21	337.57	3,842.20	949.22	-388.08	1,025.16	0.00	0.00	0.00
4,100.00	18.21	337.57	3,937.19	978.10	-400.00	1,056.41	0.00	0.00	0.00
4,200.00	18.21	337.57	4,032.18	1,006.99	-411.92	1,087.65	0.00	0.00	0.00
4,300.00	18.21	337.57	4,127.18	1,035.88	-423.85	1,118.89	0.00	0.00	0.00
4,400.00	18.21	337.57	4,222.17	1,064.77	-435.77	1,150.14	0.00	0.00	0.00
4,500.00	18.21	337.57	4,317.16	1,093.65	-447.69	1,181.38	0.00	0.00	0.00

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12A-14 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.00usft
Project:	Rio Blanco County, CO (UTM 12N)	MD Reference:	RKB @ 7932.00usft
Site:	SEC 14-T4S-R96W ELU J14 496	North Reference:	True
Well:	ELU J14 FED 12A-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.00	18.21	337.57	4,412.15	1,122.54	-459.61	1,212.62	0.00	0.00	0.00
4,700.00	18.21	337.57	4,507.14	1,151.43	-471.54	1,243.87	0.00	0.00	0.00
4,800.00	18.21	337.57	4,602.13	1,180.31	-483.46	1,275.11	0.00	0.00	0.00
4,900.00	18.21	337.57	4,697.12	1,209.20	-495.38	1,306.35	0.00	0.00	0.00
5,000.00	18.21	337.57	4,792.12	1,238.09	-507.30	1,337.60	0.00	0.00	0.00
5,100.00	18.21	337.57	4,887.11	1,266.97	-519.23	1,368.84	0.00	0.00	0.00
5,200.00	18.21	337.57	4,982.10	1,295.86	-531.15	1,400.08	0.00	0.00	0.00
5,300.00	18.21	337.57	5,077.09	1,324.75	-543.07	1,431.33	0.00	0.00	0.00
5,400.00	18.21	337.57	5,172.08	1,353.64	-555.00	1,462.57	0.00	0.00	0.00
5,500.00	18.21	337.57	5,267.07	1,382.52	-566.92	1,493.82	0.00	0.00	0.00
5,600.00	18.21	337.57	5,362.07	1,411.41	-578.84	1,525.06	0.00	0.00	0.00
5,700.00	18.21	337.57	5,457.06	1,440.30	-590.76	1,556.30	0.00	0.00	0.00
5,800.00	18.21	337.57	5,552.05	1,469.18	-602.69	1,587.55	0.00	0.00	0.00
5,816.79	18.21	337.57	5,568.00	1,474.03	-604.69	1,592.79	0.00	0.00	0.00
WASATCH_G.NPC									
5,900.00	18.21	337.57	5,647.04	1,498.07	-614.61	1,618.79	0.00	0.00	0.00
6,000.00	18.21	337.57	5,742.03	1,526.96	-626.53	1,650.03	0.00	0.00	0.00
6,100.00	18.21	337.57	5,837.02	1,555.84	-638.46	1,681.28	0.00	0.00	0.00
6,200.00	18.21	337.57	5,932.01	1,584.73	-650.38	1,712.52	0.00	0.00	0.00
6,300.00	18.21	337.57	6,027.01	1,613.62	-662.30	1,743.76	0.00	0.00	0.00
6,382.11	18.21	337.57	6,105.00	1,637.34	-672.09	1,769.42	0.00	0.00	0.00
FORT_UNION.NPC									
6,400.00	18.21	337.57	6,122.00	1,642.50	-674.22	1,775.01	0.00	0.00	0.00
6,500.00	18.21	337.57	6,216.99	1,671.39	-686.15	1,806.25	0.00	0.00	0.00
6,600.00	18.21	337.57	6,311.98	1,700.28	-698.07	1,837.49	0.00	0.00	0.00
6,700.00	18.21	337.57	6,406.97	1,729.17	-709.99	1,868.74	0.00	0.00	0.00
6,800.00	18.21	337.57	6,501.96	1,758.05	-721.91	1,899.98	0.00	0.00	0.00
6,900.00	18.21	337.57	6,596.96	1,786.94	-733.84	1,931.22	0.00	0.00	0.00
7,000.00	18.21	337.57	6,691.95	1,815.83	-745.76	1,962.47	0.00	0.00	0.00
7,100.00	18.21	337.57	6,786.94	1,844.71	-757.68	1,993.71	0.00	0.00	0.00
7,200.00	18.21	337.57	6,881.93	1,873.60	-769.61	2,024.95	0.00	0.00	0.00
7,300.00	18.21	337.57	6,976.92	1,902.49	-781.53	2,056.20	0.00	0.00	0.00
7,400.00	18.21	337.57	7,071.91	1,931.37	-793.45	2,087.44	0.00	0.00	0.00
7,500.00	18.21	337.57	7,166.90	1,960.26	-805.37	2,118.68	0.00	0.00	0.00
7,600.00	18.21	337.57	7,261.90	1,989.15	-817.30	2,149.93	0.00	0.00	0.00
7,700.00	18.21	337.57	7,356.89	2,018.04	-829.22	2,181.17	0.00	0.00	0.00
7,800.00	18.21	337.57	7,451.88	2,046.92	-841.14	2,212.41	0.00	0.00	0.00
7,900.00	18.21	337.57	7,546.87	2,075.81	-853.06	2,243.66	0.00	0.00	0.00
8,000.00	18.21	337.57	7,641.86	2,104.70	-864.99	2,274.90	0.00	0.00	0.00
8,100.00	18.21	337.57	7,736.85	2,133.58	-876.91	2,306.14	0.00	0.00	0.00
8,117.16	18.21	337.57	7,753.15	2,138.54	-878.96	2,311.51	0.00	0.00	0.00
Begin 3.00° Drop									
8,200.00	15.73	337.57	7,832.38	2,160.89	-888.18	2,335.67	3.00	-3.00	0.00
8,300.00	12.73	337.57	7,929.30	2,183.60	-897.55	2,360.24	3.00	-3.00	0.00
8,400.00	9.73	337.57	8,027.38	2,201.59	-904.98	2,379.70	3.00	-3.00	0.00
8,416.85	9.22	337.57	8,044.00	2,204.15	-906.04	2,382.47	3.00	-3.00	0.00
OHIO_CREEK.NPC									
8,500.00	6.73	337.57	8,126.34	2,214.81	-910.44	2,394.00	3.00	-3.00	0.00
8,600.00	3.73	337.57	8,225.91	2,223.23	-913.91	2,403.10	3.00	-3.00	0.00
8,700.00	0.73	337.57	8,325.83	2,226.82	-915.39	2,406.98	3.00	-3.00	0.00
8,724.17	0.00	337.57	8,350.00	2,226.96	-915.45	2,407.14	3.00	-3.00	0.00
Hold Vertical, Begin 2.00° Turn									
8,765.78	0.83	240.01	8,391.60	2,226.81	-915.71	2,407.10	2.00	2.00	-234.46

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12A-14 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.00usft
Project:	Rio Blanco County, CO (UTM 12N)	MD Reference:	RKB @ 7932.00usft
Site:	SEC 14-T4S-R96W ELU J14 496	North Reference:	True
Well:	ELU J14 FED 12A-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Hold 0.83 Inc at 240.00 Azm									
8,800.00	0.83	240.01	8,425.82	2,226.56	-916.14	2,407.05	0.00	0.00	0.00
8,830.18	0.83	240.01	8,456.00	2,226.34	-916.52	2,407.00	0.00	0.00	0.00
WILLIAMS_FORK.NPC									
8,880.19	0.83	240.01	8,506.00	2,225.98	-917.15	2,406.92	0.00	0.00	0.00
TOP_GAS.NPC									
8,900.00	0.83	240.01	8,525.81	2,225.83	-917.40	2,406.89	0.00	0.00	0.00
9,000.00	0.83	240.01	8,625.80	2,225.11	-918.66	2,406.73	0.00	0.00	0.00
9,100.00	0.83	240.01	8,725.79	2,224.38	-919.92	2,406.57	0.00	0.00	0.00
9,200.00	0.83	240.01	8,825.78	2,223.66	-921.17	2,406.41	0.00	0.00	0.00
9,300.00	0.83	240.01	8,925.77	2,222.93	-922.43	2,406.25	0.00	0.00	0.00
9,400.00	0.83	240.01	9,025.76	2,222.21	-923.69	2,406.09	0.00	0.00	0.00
9,500.00	0.83	240.01	9,125.75	2,221.48	-924.95	2,405.93	0.00	0.00	0.00
9,600.00	0.83	240.01	9,225.74	2,220.75	-926.21	2,405.77	0.00	0.00	0.00
9,700.00	0.83	240.01	9,325.73	2,220.03	-927.46	2,405.61	0.00	0.00	0.00
9,800.00	0.83	240.01	9,425.72	2,219.30	-928.72	2,405.45	0.00	0.00	0.00
9,900.00	0.83	240.01	9,525.70	2,218.58	-929.98	2,405.29	0.00	0.00	0.00
10,000.00	0.83	240.01	9,625.69	2,217.85	-931.24	2,405.13	0.00	0.00	0.00
10,100.00	0.83	240.01	9,725.68	2,217.12	-932.50	2,404.97	0.00	0.00	0.00
10,200.00	0.83	240.01	9,825.67	2,216.40	-933.75	2,404.81	0.00	0.00	0.00
10,300.00	0.83	240.01	9,925.66	2,215.67	-935.01	2,404.65	0.00	0.00	0.00
10,400.00	0.83	240.01	10,025.65	2,214.95	-936.27	2,404.49	0.00	0.00	0.00
10,500.00	0.83	240.01	10,125.64	2,214.22	-937.53	2,404.33	0.00	0.00	0.00
10,600.00	0.83	240.01	10,225.63	2,213.49	-938.79	2,404.17	0.00	0.00	0.00
10,700.00	0.83	240.01	10,325.62	2,212.77	-940.04	2,404.01	0.00	0.00	0.00
10,800.00	0.83	240.01	10,425.61	2,212.04	-941.30	2,403.85	0.00	0.00	0.00
10,900.00	0.83	240.01	10,525.60	2,211.32	-942.56	2,403.69	0.00	0.00	0.00
11,000.00	0.83	240.01	10,625.59	2,210.59	-943.82	2,403.53	0.00	0.00	0.00
11,100.00	0.83	240.01	10,725.58	2,209.86	-945.08	2,403.37	0.00	0.00	0.00
11,200.00	0.83	240.01	10,825.57	2,209.14	-946.33	2,403.21	0.00	0.00	0.00
11,300.00	0.83	240.01	10,925.56	2,208.41	-947.59	2,403.05	0.00	0.00	0.00
11,385.45	0.83	240.01	11,011.00	2,207.79	-948.67	2,402.92	0.00	0.00	0.00
CAMEO.NPC									
11,400.00	0.83	240.01	11,025.55	2,207.69	-948.85	2,402.89	0.00	0.00	0.00
11,500.00	0.83	240.01	11,125.54	2,206.96	-950.11	2,402.73	0.00	0.00	0.00
11,600.00	0.83	240.01	11,225.53	2,206.24	-951.37	2,402.57	0.00	0.00	0.00
11,700.00	0.83	240.01	11,325.51	2,205.51	-952.62	2,402.41	0.00	0.00	0.00
11,800.00	0.83	240.01	11,425.50	2,204.78	-953.88	2,402.26	0.00	0.00	0.00
11,900.00	0.83	240.01	11,525.49	2,204.06	-955.14	2,402.10	0.00	0.00	0.00
12,000.00	0.83	240.01	11,625.48	2,203.33	-956.40	2,401.94	0.00	0.00	0.00
12,100.00	0.83	240.01	11,725.47	2,202.61	-957.66	2,401.78	0.00	0.00	0.00
12,200.00	0.83	240.01	11,825.46	2,201.88	-958.91	2,401.62	0.00	0.00	0.00
12,300.00	0.83	240.01	11,925.45	2,201.15	-960.17	2,401.46	0.00	0.00	0.00
12,393.56	0.83	240.01	12,019.00	2,200.47	-961.35	2,401.31	0.00	0.00	0.00
ROLLINS.NPC									
12,400.00	0.83	240.01	12,025.44	2,200.43	-961.43	2,401.30	0.00	0.00	0.00
12,500.00	0.83	240.01	12,125.43	2,199.70	-962.69	2,401.14	0.00	0.00	0.00
12,593.58	0.83	240.01	12,219.00	2,199.02	-963.87	2,400.99	0.00	0.00	0.00
TD at 12593.58									

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12A-14 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.00usft
Project:	Rio Blanco County, CO (UTM 12N)	MD Reference:	RKB @ 7932.00usft
Site:	SEC 14-T4S-R96W ELU J14 496	North Reference:	True
Well:	ELU J14 FED 12A-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
BHL - ELU J14 12-14	0.00	0.00	12,219.00	2,199.02	-963.87	14,432,167.50	2,444,956.60	39.706934	-108.139653
- plan hits target center									
- Ellipse (radii L75.00 W50.00 on 240.00 azi)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
3,290.25	3,168.00	WASATCH.NPC				
5,816.79	5,568.00	WASATCH_G.NPC				
6,382.11	6,105.00	FORT_UNION.NPC				
8,416.85	8,044.00	OHIO_CREEK.NPC				
8,830.18	8,456.00	WILLIAMS_FORK.NPC				
8,880.19	8,506.00	TOP_GAS.NPC				
11,385.45	11,011.00	CAMEO.NPC				
12,393.56	12,019.00	ROLLINS.NPC		0.00		
12,593.58	12,219.00	TD.MBL		0.00		

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
250.00	250.00	0.00	0.00	Begin 3.00° Build
350.00	349.95	2.53	-0.68	Hold 3.00 Inc at 345.00 Azm
550.00	549.68	12.64	-3.39	Begin 3.00° Build & Turn
1,058.01	1,047.56	99.37	-37.31	Hold 18.21 Inc at 337.57 Azm
8,117.16	7,753.15	2,138.54	-878.96	Begin 3.00° Drop
8,724.17	8,350.00	2,226.96	-915.45	Hold Vertical, Begin 2.00° Turn
8,765.78	8,391.60	2,226.81	-915.71	Hold 0.83 Inc at 240.00 Azm
12,593.58	12,219.00	2,199.02	-963.87	TD at 12593.58